FORM 1449 (Modified)

PUBLICATION

"Styrene-Diene Triblock Copolymers: Orientation Conditions and Mechanical Properties of The Oriented Materials" A. Weill and R. Pixa, Journal of Polymer Science Polymer Symposium 58, 381-394 (1977).

TUFTEC trade literature, Asani Chemical Co., Ltd., Synthetic Rubber Division, English and Japanese 14 pages.

SEPTON trade literature, Kuraray Co., LTD. 1995.8 (4,000) 15 pages.

Shell Chemical Co., Data-Sheets: EKP-207 (093094-02) and L-1203 (SE:-2-384-950-Mo dell

US **DOCUMENTS** PATENT

Ex √ PATENT No. ISSUE_DATE PATENTEE Class/subclass FILING DATE 4,737,128 4/12/88 Moormann et al 3,594,945 7/27/71 Turney

FOREIGN PATENT DOCUMENT

> UK A1,268,431 3/29/72 3-M

The above identified application relies under 35 USC 120 on other earlier filed prion applications USSN: PCT/US/94/07314, 957,290; 152,734; 152,735; \(\frac{114,688}{114,688}; 935,540; 876,118; \) and 705,096. Applicant submit herewith information which may be material to the examination of this application in accordance with 37 CFR 1.56. A listing of cumulative information from parents, an explanation of the relevance of each it/em are given below.

07/934,027

AA, AB, AC, AD, AH, AI, AJ, AO, AP, A'C', A'D', A'F' are considered relevant, see col2, lines 37-40 of AA; see Figs 10A and 10B of AB; see col 3, lines 6-68 of AC; see Fig 1C, 1D, PA, 2B, col 2, lines 36-68 of AD; see col 2, lines 1-13, Fig 2A and 2B of AH; see co/1 2, lines 54-57 of AI; see col 7, lines 35-54 of AJ; see cols 1, 2 and 1/nes 28-54 of col 3 of AO; see col 1, lines 24-26, col 3, lines 23-65 of AP see col 5, lines 60-68 of A'C'; see col 3, lines 15-17 and Example III of A'D'; and see page 2, lines 73-76 and Example II of A'F'.

A'H', A'G', A'E', A'B', A'A', AZ, AY, AS, AV, AW, AR, AT, AQ, AN, AM, are also considered relevant. These related to gels, oil gels and their uses. AK, AF are related to sealants and coatings. AE, AG, are related to various uses of gels and oil gels. AA-A'F' involve gels, oil gels, coatings, sealants, adhesives and the like on or in contact with various substrates.

Documents previously cited and submitted to the Office in prior applications USSN: 07/876,118; $0\sqrt{705,096}$; 07/705,711; 07/211,426 and Patents: 4,618,213 and 4,369,284 are not enclosed (see enclosed attachments).

FORM 1449 (Modified)

US PATENT DOCUMENTS

p., 1	DAMENIM NA	TOOUE D.M.	D. #5.1		
Ex 1	PATENT No.	ISSUE DATE	PATENTEE	Class/subclass	FILING DATE
· 🙀 😾	4,944,973	7.31.90	Follette	T	9.13.89
AB	4,942,270	7.17.90	Gamarra	\ /	7.12.88
AC	4,909,756	3.20.90	Jervis	\ /	8.31.88
AD	4,900,877	2.13.90	Dr2row / Hol	land / /	7.12.88
AE	4,889,403	12.26.89	Zucker	\ /	12.23.87
AF	4,888,070	12.19.89	Clark	\ /	12.1.87
AG	4,883,431	11.28.89	Uken	\ /	9.26.86
НА	4,865,905	9.12.89	Uken	\ /	12.9.88
AI	4,822,834	4.18.89	Blevins	\/	4.19.88
AJ	4,833,193	5.23.89	Sieverding	V	8.14.87
AK	4,801,346	1.31.89	Huddleston	Λ	7.30.86
AL	4,764,535	8.16.88	Leicht	/\	8.6.84
AM	4,709,982	12.1.87	Corne	/ /	11.13.85
AN	4,716,183	12.29.87	Gamarra	11	11.22.85
AO	4,690,831	9.1.87	Uken	1 1	6.18,86
AP	4,680,233	7.14.87	Camin	1 1	5.2.85
AQ	4,662,692	5.5.87	Uken	1 1	5.2.85
AR	4,600,261	7.15.86	Debbaut	1 1	10.12.82
AS	4,618,213	10.21.86	Chen	[]	1.18.84
AT	4,610,738	9.9.86	Jervis		1.4.85
AU	4,509,821	4.9.85	Stenger		9.1.83
AV	4,497,538	2.5.85	Patel		8.10.83
AW	4,492,428	1.8.85	Levy		8.16.82
ΑX	4,432,607	2.21.84	Levy	1 1	10.27.81
AY	4,369,284	1.18.83	Chen	1 1	3.28.80
AZ	4,351,913	9.28.82	Patel	\ \ \	1.4.82
A'A'	4,259,540	3.31.81	Sabia	1 1	4.20.79
A'B'	4,176,240	11.27.79	Sabia	1 1	5.30.78
A'C'	4,151,057	4.24.79	St. Clair	1 1	8.14.78
A A'D'	3,676,387	7.11.72	Lindlof	1	12.21.70
A'E'	3,485,787	12.23.69	Haefele		12.27.66
		FOREIGN		CUMENT	
y y y	A'F' UK 1,	268,431 3/72	MMM (3M)		1.28.69
		PU	BLICATION	1	

 \mathcal{M} A'C

SC:1102-89 Shell Chemical Technical Bulletin

"KRATON® Thermoplastic Rubber in oil gels"

April 1989

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US PATENT DOCUMENTS

PATENT No.

ISSUE DATE PATENTEE Class/subclass

FILING DATE

3,827,999

8.6.74 Crossland

FOREIGN PATENT DOCUMENT

USSN:/07/935,540

B, BA, BB, BC, BD, BE, BF, BG, BH, BI BJ, BK, BL, BM, BN, BO, & BP are considered relevant, see col 2, lines 40-50; col 3, lines 6-43; col 5, lines 67-68; and col 6, lines 1026 of B. See col 2, lines 19-26; lines 45+68; & col 3, lines 40-68 of BA. See col 9, lines 56-68 of BB. See col 2, lines 40-53 of BC. See col 4, lines 6-21 of BDFF. See col 3, lines 55 & col 4, lines 6-45 of BE. See col 2, lines 35-62 of BF. See col 1, lines 23-39 & col 2, lines 32-51 of BG. See ϕ ol 4, lines 5-8 and lines 63-66 of BH. See col 3, lines 25-50 of B^{\dagger} . See col 2, lines 67-68 and col 3, lines 14-48 of BJ. See description of Kraton gels of BK. See col 2, lines 59-60 of BL. See ϕ ol 1, lines 31+48 and col 3, lines 9-15 (biopolymers) of BM. See description of silicone gels of BN. See col 2, lines 24-68 of BQ. See col 4, lines 56-68 and col 5, lines 1-2 of BP.

B is directed to chemidally crosslinked gelling liquid mixtures of polyurethane and polysiloxane with foam. BI is directed to urethane and silicone liquid rubbers requiring chemical crosslinking. BL is directed to encapsulation of wires in gels disclosed in applicant's 213 and 284 patents. BK is directed to Kraton gels disclosed in applicant's 213 and 284 patents. BM is directed to biopolymers.

BA, BB, BC, BD, BE, BF, BG, BH, BJ, BN, BO, & BP all have filing dates after applicant's parent and grand parent cases upon which the present application dely for its early filing date. For example 284 (filing date 3/28/80), 213 (1/18/84), USSN 921,752 (10/21/86). Both 284 and 213 disclose vischelastic layers, laminates, wrappings, enclosures linings, encapsulations and the like. Applicant's 752 disclose and claim ther moplastic elastomer gels (gelatinous compositions) calsted with foam, gel wrapper, pads, cushions, etc. of which the present case λ s a c-i-p.

FORM 1449 (Modified)

US PATENT DOCUMENTS

Ex √ DATE

PATENT No. ISSUE DATE PATENTEE Class/subclass FILING

В

4,718,678 1/12/88

277/1

6/13/86

	BA BBC BBE BBE BBI BBI BBN BBN BBN BBN BBN	4,842,931 4,983,008 4,889,717 4,875,870 5,088,734 5,085,597 5,173,573 4,798,853 4,643,924 4,864,725 4,709,982 4,721,832 4,389,461 5,191,752 5,149,736	10/24/89 2/18/92 2/4/92 12/22/92 1/17/89 2/17/87 9/12/89 12/1/87 1/26/88 6/21/83 3/9/93 9/22/92	Zook Campbell Covington Hardy Glava Story Jervis Handlin Uken Debbaut Corne Toy Scott Murphy Gamarra	428/354 350/96.16 428/304 439/204 273/73 439/521 174/138 523/173 428/35 29/871 350/96.23 174/87 428/543 54/44.5 524/490	7/19/88 11/1/88 4/21/88 7/18/88 1/9/91 3/28/91 3/15/91 1/20/87 5/2/85 4/18/88 11/13/85 5/2/86 4/8/82 5/4/92 5/7/90
by	BP	5,059,748	10/22/91	Allen	174/87	4/26/90

AA, AB, AC, AD, AH, AI, AJ, AO, AP, A'C', A'D', A'F' are considered relevant, see col2, lines 37-40 of AA; see Figs 10A and 10B of AB; see col 3, lines 6-68 of AC; see Fig 1C, 1D, 2A, 2B, col 2, lines 36-68 of AD; see col 2, lines 1-13, Fig 2A and 2B of AH; see col 2, lines 54-57 of AI; see col 7, lines 35-54 of AJ; see cols 1, 2 and lines 28-54 of col 3 of AO; see col 1, lines 24-26, col 3, lines 23-65 of AP; see col 5, lines 60-68 of A'C'; see col 3, lines 15-17 and Example III of A'D'; and see page 2, lines 73-76 and Example II of A'F'.

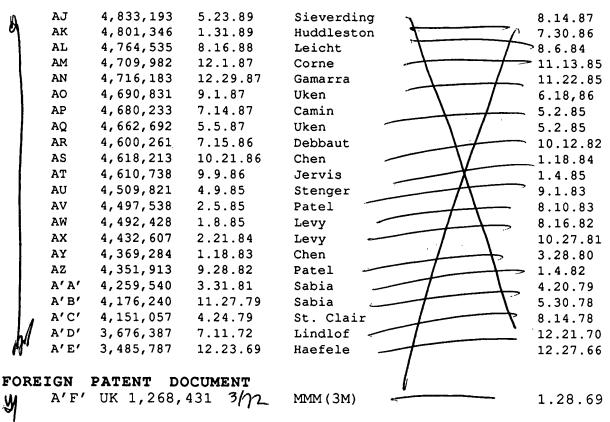
A'H', A'G', A'E', A'B', A'A', AZ, AY, AS, AV, AW, AR, AT, AQ, AN, AM, are related to gels, oil gels and their uses. AK, AF are related to sealants and coatings. AE, AG, are related to various uses of gels. AA-A'F' involve gels, coatings, sealants, adhesives and the like on or in contact with various substrates.

Documents AB, AD, AI, AJ, AM, AN, AP, AR, AS, AU, AV, AX-A'H' were previously cited of record in applicant's cases USSN: 07/705,711; Patents: 4,618,213 and 4,369,284. Copies of these are not enclosed.

FORM 1449 (Modified)

US PATENT DOCUMENTS

Ex 1	P	ATENT No.	ISSUE DATE	PATENTEE	Class/subclass	FILING DATE
A	AA	4,944,973	7.31.90	Follette	(9.13.89
1	AB	4,942,270	7.17.90	Gamarra	\ /	7.12.88
i	AC	4,909,756	3.20.90	Jervis	\ /	8.31.88
i	AD	4,900,877	2.13.90	Dr?row /Holl	land \ /	7.12.88
	ΑE	4,889,403	12.26.89	Zucker	V	12.23.87
- 1	AF	4,888,070	12.19.89	Clark	λ	12.1.87
ı	AG	4,883,431	11.28.89	Uken	/\	9.26.86
- 1	AH	4,865,905	9.12.89	Uken	/ . \	12.9.88
1	AI	4,822,834	4.18.89	Blevins	/ \	4.19.88
M		Julit (Zel-	ud 17-	/ \ 5-1-9	1



PUBLICATION

A'G' SC:1102-89 Shell Chemical Technical Bulletin "KRATON® Thermoplastic Rubber in oil gels"

April 1989

FORM 1449 (Modified)

US PATENT **DOCUMENTS**

PATENT NO. ISSUE DATE PATENTEE Class/subclass FILING DATE

3,827,999 8.6.74 Crossland

11.9.73

FOREIGN PATENT DOCUMENT/PUBLICATION

USSN: 07/934,027

AA, AB, AC, AD, AH, AI\ AJ, AO, AP, A'C', A'D', A'F' are considered relevant, see col2, lines 37-40 of AA; see Figs 10A and 10B of AB; see col 3, lines &-68 of AC; see Fig 1C, 1D, 2A, 2B, col 2, lines 36-68 of AD; see col 2, lines 1-13, Fig 2A and 2B of AH; see col 2, lines 54-57 of AI; see col 7, lines 35-54 of AJ; see cols 1, 2 and lines 28-54 Δf col 3 of AO; see col 1, lines 24-26, col 3, lines 23-65 of AP; see col 5, lines 60-68 of A'C'; see col 3, lines 15-17 and Example IN of A'D'; and see page 2, lines

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A'H', A'G', A'E', A'B', A'A', AZ, AY, AS, AV, AW, AR, AT, AQ, AN, AM, are also considered relevant. These related to gels, oil gels and their uses. AK, AF are related to sealants and coatings. AE, AG, are related to various uses of gels and oil gels. AA-A'F' involve gels, oil gels, coatangs, sealants, adhesives and the like on or in contact with various substrates.

FORM 1449 (Modified)

US	PATEN'	T DOCUMENT	S			
FV	J DAT	ENT No. ISS	UE DATE	PATENTEE Clas	ss/subclass F/I	LING DATE
TA.	AA		7.31.90	Follette	ss/subclass Hi	LING DATE 9.13.89
M	AB		7.17.90	Gamarra	· [/	7.12.88
· 1	AC		3.20.90	Jervis	\ /	8.31.88
- 1	AD	4,900,877	2.13.90	Dr?row / Ho	lland /	7.12.88
1	ΑE	4,889,403	12.26.89	Zucker	1 /	12.23.87
	AF	4,888,070	12.19.89	Clark	\ /	12.1.87
	AG	4,883,431	11.28.89	Uken	1 /	9.26.86
- 1	AΗ	4,865,905		Uken	. \ /	12.9.88
- 1	ΑI	4,822,834			1/	4.19.88
1	АJ	4,833,193			1/	8.14.87
1	ΑK	4,801,346			1/	7.30.86
1	AL	4,764,535		Leicht	V	8.6.84
1	AM	4,709,982		Corne	Į.	11.13.85
1	AN	4,716,183		Gamarra	Λ	11.22.85
- 1	AO	4,690,831		Uken	/1	6.18,86
- 1	AP	4,680,233		Camin	/ \	5.2.85
- 1	AQ	4,662,692	5.5.87	Uken	/ \	5.2.85
1	AR	4,600,261		Debbaut	/ \	10.12.82
1	AS	4,618,213		Chen	/ \	1.18.84
- 1	ΑT	4,610,738		Jervis	/ \	1.4.85
į.	AU	4,509,821		Stenger	/ /	9.1.83
- 1	ΑV	4,497,538		Patel	/ /	8.10.83
l l	AW	4,492,428		Levy		8.16.82
1	AΧ	4,432,607		Levy		10.27.81
1	ΑΥ	4,369,284		Chen		3.28.80
	AZ A'A'	4,351,913		Patel		1.4.82
- 1	A'A'	4,259,540		Sabia		4.20.79
- 1		4,151,057		Sabia	1	5.30.78
- 1	A'D'	3,676,387		St. Clair		8.14.78
A	A'E'		12.23.69	Lindlof Haefele	1	12.21.70
M	A E	3,403,707	12.23.09	naerere	'	12.27.66
FOR	REIGN	PATENT DOC	UMENT		•	
Ĭ, -	A'F'	UK 1,268,43		MMM (3M)		1 20 60
A,	A E	OR 1,200,43	1 -116	rama (2M)		1.28.69

PUBLICATION

A'G' SC:1102-89 Shell Chemical Technical Bulletin "KRATON® Thermoplastic Rubber in oil gels" April 1989

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8.6.74

FORM 1449 (Modified)

(Modified) Docket No.: 012

USSN: 07/934,027

Applicant:

cant: John Y, Chen

Group: 1808

Page 2 of 2

Filing Date: 8/24/92

US PATENT DOCUMENTS

Ex V PATENT No. ISSUE DATE PATENTEE Class/subclass FILING DATE

N

A'H' 3,827,999

Crossland

11.9.73

FOREIGN PATENT DOCUMENT

USSN: 705,711

US PATENT DOCUMENTS

					/
Ex V		PATENT No.	ISSUE DATE	PATENTEE Class/subcl	ass FILING DATE
M	AA	4,822,834	4.18.89	Blevins \[\(\bar{\cappa}\)	4.19.88
~	AB	4,833,193	5.23.89	Sieverding \	8.14.87
- 1	AC	4,709,982	12.1.87	Corne	11.13.85
- 1	ΑD	4,716,183	12.29.87	Gamarra \ /	11.22.85
	AΕ	4,680,233	7.14.87	Camin \ /	5.2.85
1	AF	4,600,261	7.15.86	Debbaut \ /	10.12.82
	AG	4,618,213	10.21.86	Chen \/	1.18.84
	AΗ	4,509,821		Stenger \/	9.1.83
	ΑI	4,497,538		Patel	8.10.83
1	ΑJ	4,432,607		Levy	10.27.81
ľ	ΑK	4,369,284		Chen /\	3.28.80
- 1	AL	4,151,057			8.14.78
	AM	3,676,387		Lindlof	12.21.70
Λ'M	AN	3,485,787		Haefele	12.27.66
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FORE	EIGN	PATENT DO	CUMENT	· ·	V
	AO	UK			•
n/		58,431 3/ ₇₂	MMM / 3M)	1.28.69	
\mathcal{H}	1,20	10, 331 1/12	[HHH (3H)	1.20.09	
H	1,20	00,431 7/12	MMM (2M)	1.28.69	

USSN1 08/152,735

Examiner's attention is directed to US Patent No. 4,716,183; 5,149,736; UK 1,268,431 cited in the attached IDS of USSN 07/935,540 dated January 26, 1993 and December 17, 1993. These are considered cumulative. With respect to '183, see col. 3. lines 35-43. The UK '431 discloses SIS and SBS, see lines 60-90 which discloses the use of Royalene 301.

Item E is directed to a triblock copolymers with polyphenylene ether alloys. Item F is directed to stabilizing additive to SEBS to resists migration of PVC plasticizers. Item G is directed to SEBS/SEP gels. It appears that the priority date of Item G of 6 Sept. 1991 is much later than Applicant's USSN 527,058 (filing date of May 21, 1990) which is the grandparent C-

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7 of 12

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I-P of USSN 152,735 (i.e. more than one year and three months).

Applicant also encloses copies of IDS of USSN 935,540 (January 26 and Dec. 17, 1993); USSN 957,290 (January 26, 1993 and Dec. 15, 1993); and USSN 705,711 (January 31, 1992 and December 22, 1992). These are considered cumulative.

FORM 1449 (Modified)

FORT PATENT DOCUMENTS

Ex	√	PATENT	No.	PUB.	DATE	APPLIC	CANT	PRIORITY DATE
(H)	E	PCT/WO	88/00	603	28.1.	88	RAYCHEM	18.7.86
	F	PCT/WO	91/05	014	18.4.	91	RAYCHEM	5.10.89
M	G	PCT/WO	93/05	113	18.3.	93	RAYCHEM	6.9.91

Serial No.: 07/957,290

B, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, & BP are considered relevant, see col 2, lines 40-50; col 3, lines 6-43; col 5, lines 67-68; and col 6, lines 1026 of B. See col 2, lines 19-26; lines 45-68; & col 3, lines 40-68 of BA. See col 9, lines 56-68 of BB. See col 2, lines 40-53 of BC. See col 4, lines 6-21 of BDFF. See col 3, lines 55 & col 4, lines 6-45 of BE. See col 2, lines 35-62 of BF. See col 1, lines 23-39 & col 2, lines 32-51 of BG. See col 4, lines 5-8 and lines 63-66 of BH. See col 3, lines 25-50 of BI. See col 2, lines 67-68 and col 3, lines 14-48 of BJ. See description of Kraton gels of BK. See col 2, lines 59-60 of BL. See col 1, lines 31-48 and col 3, lines 9-15 biopolymers) of BM. See description of silicone gels of BN. See col 2, lines 24-68 of BO. See col 4, lines 56-68 and col 5, lines 1-2 of BP.

B is directed to chemically closslinked gelling liquid mixtures of polyurethane and polysiloxane with floam. BI is directed to urethane and silicone liquid rubbers requiring chemical crosslinking. BL is directed to encapsulation of wires in gels disclosed in applicant's 213 and 284 patents. BK is directed to Kraton gels disclosed in applicant's 213 and 284 patents. BM is directed to biopolymers.

BA, BB, BC, BD, BE, BF, BG, BH, BJ, BN, BO, & BP all have filing dates after applicant's parent and grand parent cases upon which the present application rely for its early filing date. For example 284 (filing date 3/28/80), 213 (1/18/84), USSN 921,752 10/21/86). Both 284 and 213 disclose viscoelastic layers, laminates, wrappings, enclosures, linings, encapsulations and the like. Applicant's 752 disclose and claim thermoplastic elastomer gels (gelatinous compositions) casted with foam of which the present case is a c-i-p.

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US PATENT DOCUMENTS

Ex	√ P2	ATENT No.	TSSHE DATE	PATENTEE	Class/subclass	FILTNC DATE
- W	В	4,718,678	1/12/88	Vansant	277/1	6/13/86
٦	BA	4,842,931	6/27/89	Zook	428/354	7/19/88
	BB	4,983,008	1/8/91	Campbell	350/96.16	11/1/88
	ВC	4,889,717		Covington	428/304	4/21/88
	BD	4,875,870		Hardy	439/204	7/18/88
- 1	BE	5,088,734		Glava	273/73	1/9/91
Ì	${ t BF}$	5,085,597		Story	439/521	3/28/91
ı	BG	5,173,573		Jervis	174/138	3/15/91
	ВН	4,798,53		Handlin	523/173	1/20/87
- 1	ΒI	4,643,924	, ,	Uken	428/35	5/2/85
	ВJ	4,864,725		Debbaut	29/871	4/18/88
- 1	BK	4,709,982		Corne	350/96.23	11/13/85
- 1	\mathtt{BL}	4,721,832		Тоу	174/87	5/2/86
- 1	BM	4,389,461		Scott	428/543	4/8/82
- 1	BN	5,191,752		Murphy	54/44.5	5/4/92
h	ВО	5,149,736	9/22/92	Gamarra	524/490	5/7/90
	BP	5,059,748	10/22/91	Allen	174/87	4/26/90
					1	

USSN: 07/957,290

AA, AB, AC, AD, AH, AI, AJ, AO, AP, A'C', A'D', A'F' are considered relevant, see col2, lines 37-40 of AA; see Figs 10A and 10B of AB; see col 3, lines 6-68 of AC; see Fig 1C, 1D, 2A, 2B, col 2, lines 36-68 of AD; see col 2, lines 54-57 of AI; see col 7, lines 35-54 of AJ; see cols 1, 2 and lines 28-54 of col 3 of AO; see col 1, lines 24-26, col 3, lines 23-65 of AP; see col 5, lines 60-68 of A'C'; see col 3, lines 15-17 and Example III of A'D'; and see page 2, lines 73-76 and Example II of A'F'.

A'H', A'G', A'E', A'B', A'A', AZ, AY, AS, AV, AW, AR, AT, AQ, AN, AM, are also considered relevant. These related to gels, oil gels and their uses. AK, AF are related to sealants and coatings. AE, AG, are related to various uses of gels and oil gels. AA-A'F' involve gels, oil gels, coatings, sealants, adhesives and the like on or in contact with various substrates.

Documents AB, AD, AI, AJ, AM, AN, AP, AR, AS, AU, AV, AX-A'H' were previously cited of record in applicant's cases USSN: 07/705,711; Patents: 4,618,213 and 4,369,284. Copies of these (already of record) are not enclosed.

FORM 1449 (Modified)

US PATENT DOCUMENTS

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Ex V	PATENT No	. ISSUE DAT	E PATENTEE	Class/subclass	FILING
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	4,944,973 4,942,270 4,909,756 4,909,756 4,889,403 4,888,070 4,883,431 4,865,905 4,822,834 4,833,193 4,801,346 4,764,535 4,709,982 4,716,183 4,662,692 4,610,738 4,662,692 4,610,738 4,610,738 4,492,428 4,492,438 4,492,	7.31.90 7.17.90 3.20.90 2.13.90 12.26.89 12.19.89 9.12.89 4.18.89 5.23.89 1.31.89 8.16.88 12.1.87 12.29.87 9.1.87 7.14.87 5.5.87 7.15.86 10.21.86 9.9.86 4.9.85 2.5.85 1.8.85 2.21.84 1.18.83 9.28.82 3.31.81 11.27.79 4.24.79 7.11.72	Follette Gamarra Jervis Dr?row /E Zucker Clark Uken Uken Blevins Sieverdin Huddlesto Leicht Corne Gamarra Uken Camin Uken Debbaut Chen Jervis Stenger Patel Levy Levy Chen Patel Sabia Sabia	dolland degree	9.13.89 7.12.88 8.31.88 7.12.88 12.23.87 12.1.87 9.26.86 12.9.88 4.19.88 8.14.87 7.30.86 8.6.84 11.13.85 11.22.85 6.18,86 5.2.85 10.12.82 1.18.84 1.4.85 9.1.83 8.10.83 8.10.83 8.16.82 10.27.81 3.28.80 1.4.82 4.20.79 5.30.78 8.14.78 12.21.70 12.27.66
FOREIGN A'F'		CUMENT	MMM (3M)	V > V	1.28.69
A (451 716	rimi (Sri)		1.20.09
PUBLICAT A'G'	SC:1102-8	9 Shell Che Thermoplas	emical Tech tic Rubber	nnical Bulletin in oil gels"	April 1989
FORM 144	9 (Modifi	ed)			
US PATEN	T DOCUMEN	TS			
Ex 1	PATENT No.	ISSUE DATE	PATENTEE	Class/subclass	FILING DATE
А'н'	3,827,999	8.6.74	Crossland		11.9.73

08/114,688

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B, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, & BP are considered relevant, see col 2, lines 40-50; col 3, lines 6-43; col 5, lines 67-68; and col 6, lines 1026 of B. See col 2, lines 19-26; lines 45-68; & col 3, lines 40-68 of BA. See col 9, lines 56-68 of BB. See col 2, lines 40-53 of BC. See col 4, lines 6-2 of BDFF. See col 3, lines 55 & col 4, lines 6-45 of BE. See col 2, lines 35-62 of BF. See col 1, lines 23-39 & col 2, lines 32-51 of BG. See col 4, lines 5-8 and lines 63-66 of BH. See col 3, lines 25-50 of BI. See col 2, lines 67-68 and col 3, lines 14-48 of BJ. See description of Kraton gels of BK. See col 2, lines 59-60 of BL. See col 1, lines 31-48 and col 3, lines 9-15 (biopolymers) of BM. See description of silicone gels of BN. See col 2, lines 24-68 of BO. See col 4, lines 56-68 and col 5, lines 1-2 of BP.

- b. B is directed to chemically crosslinked gelling liquid mixtures of polyurethane and polysiloxane with foam. BI is directed to urethane and silicone liquid rubbers requiring chemical crosslinking. BL is directed to encapsulation of wires in gels disclosed in applicant's 213 and 284 patents. BK is directed to Kraton gels disclosed in applicant's 213 and 284 patents. BM is directed to biopolymers.
- c. Examiner's attention is directed to US Patent No. 4,716,183; 5,149,736; UK 1,268,431 cited in USSN 07/935,540. These are considered cumulative. With respect to '183 see col. 3. lines 35-43. The UK '431 discloses SIS and SBS, see lines 60-90 which discloses the use of Royalene 301.

Item E is directed to a triblock copolymers with polyphenylene ether alloys. Item F is directed to stabilizing additive to SEBS to resists migration of PVC plasticizers. Item G is directed to SEBS/SEP gels. It appears that the priority date of Item G of 6 Sept. 1991 is much later than Applicant's USSN 527,058 (filing date of May 21, 1990) which is the grandparent C-I-P of USSN 152,735 (i.e. more than one year and three months).

FORM 1449 (Modified)

US PATENT DOCUMENTS

Ex V	PATENT No. 4,718,678	ISSUE DATE	PATENTEE	Class/subclass	FILING DATE
BA	•		Vansant	277/1	6/13/86
	4,842,931	6/27/89	Zook	428/354	7/19/88
ВВ	4,983,008	1/8/91	Campbell	350/96.16	11/1/88
ВС	4,889,717	12/26/89	Covington	428/304	4/21/88
BD	4,875,870	10/24/89	Hardy	439/204	7/18/88
BE	5,088,734	2/18/92	Glava	273/73	1/9/91
BF	5,085,597 2	/4/92	Story	439/521	3/28/91
BG	5,173,573	12/22/92	Jervis	174/138	3/15/91
ВН	4,798,853	1/17/89	Handlin	523/173	1/20/87
BI	4,643,924	2/17/87	Uken	428/35	5/2/85
BJ	4,864,725	9/12/89	Debbaut	29/871	4/18/88
BK	4,709,982	12/1/87	Corne	350/96.23	11/13/85
BL /	4,721,832	1/26/88	Toy	174/87	5/2/86

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BM	4,389,461	6/21/83	Scott	428/543	4/8/82
BN	5,191,752	3/9/93	Murphy	54/44.5	5/4/92
во	5,149,736	9/22/92	Gamarra	524/490	5/7/90
BP	5,059,748	10/22/91	Allen	174/87	4/26/90

Examiner Considered Date

citation considered. Draw liné through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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USSN:

08/581,191

Copies of P1 and P2 attached

FORM 1449 (Modified)

PUBLICATION

 \mathcal{M}

P1 "Properties of Oriented Block coploymers", A. Skoulios, Journal of Polymer Science: Polymer Symnposium 58, 369-379 (1977).

V

P2 "Styrene-Diene Triblock Copolymers: Orientation Conditions and Mechanical Properties of The Oriented Materials" A. Weill and R. Pixa, Journal of Polymer Science Polymer Symposium 58, 381-394 (1977).

Examiner

| Date Considered: <

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.